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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/099,641		03/15/2002	Wilbur G. Catabay	99-102/1D 4975		
24319	7590	01/31/2003				
	LSI LOGIC CORPORATION 1621 BARBER LANE				EXAMINER	
MS D-106,	LEGAL D	EPARTMENT	KILDAY, LISA A			
MILPITAS,	CA 9503	35		ART UNIT PAPER NUMBE		
			2829			
				DATE MAILED: 01/31/2003	DATE MAILED: 01/31/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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• •		Application No.	Applicant(s)			
		10/099,641	CATABAY ET AL.			
Offic	e Action Summary	Examiner	Art Unit			
		Lisa A Kilday	2829			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1)⊠ Respons	sive to communication(s) filed on 3/1	<u>5/02</u> .				
· ·		nis action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Cla						
	15-19 is/are pending in the application					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s)	is/are allowed.					
6)⊠ Claim(s)	<u>15-19</u> is/are rejected.					
7) Claim(s)	is/are objected to.					
	are subject to restriction and/o	or election requirement.				
Application Paper						
	fication is objected to by the Examine					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 l	J.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)∏ All b)[	☐ Some * c)☐ None of:					
1.☐ Ce	rtified copies of the priority document	ts have been received.				
2. Ce	rtified copies of the priority document	ts have been received in Applicati	on No			
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
	gment is made of a claim for domest					
_a) 🗌 The t	ranslation of the foreign language pro Igment is made of a claim for domes	ovisional application has been rec	ceived.			
Attachment(s)						
	ices Cited (PTO-892) erson's Patent Drawing Review (PTO-948) osure Statement(s) (PTO-1449) Paper No(s) <u>2</u>	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)		ction Summary	Part of Paper No. 6			

Application/Control Number: 10/099,641

Art Unit: 2829

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 15-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Jeng (5,281,621). In re claims 15-16, 18-19, Jeng discloses in figs. 1-4 a composite layer of low k silicon oxide dielectric material (22) on an oxide layer (12) of an IC (fig. 1), said composite layer of low k silicon oxide dielectric material exhibiting void-free deposition properties (col. 4 lines 1-5), comprising: a first layer of low k silicon oxide dielectric material exhibiting void-free deposition properties (22); and a second layer of low k silicon oxide dielectric material (24) to a desired thickness.

In re claim 17, Jeng discloses a composite layer of low k carbon doped silicon oxide (22, col. 1 lines 45-55, table in col. 5) exhibiting void-free deposition properties, comprising: a first layer of low k carbon-doped silicon oxide dielectric (22); and a second layer of carbon-doped low k silicon oxide (24) by PECVD (col. 4 lines 63-65).

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kim et al. (5,302,233), Jeng et al. (5,818,111), Jeng (5,708,303), Roche et al. (5,913,140), & Andideh (6,191,050).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0957. See MPEP 203.08.

Application/Control Number: 10/099,641

Art Unit: 2829

Any inquiry concerning this communication from the examiner should be directed to Lisa Kilday whose telephone number is (703) 306-5728. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo, can be reached on (703) 308-1233. The fax number for the group is (703) 305-3432. MPEP 502.01 contains instructions regarding procedures used in submitting responses by facsimile transmission.

Lisa Kilday

LAK

1/23/03

KAMAND CUNEO

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800